REFEENCES

1. Eastman JA, Choi US, Thompson LJ, Lee S. “Enhanced thermal conductivity through the development of nanofluids. Mater Res Soc Symp proc 1996;457:3-11
2. Horuz I. An alternative road transport refrigeration. Tr. J. Of Engineering and Environmental Science 1998;22:211-222.
3. Wang X, Xu X, Choi SUS: Thermal conductivity of nanoparticle-fluid mixture. J Thermophys Heat trans 1999, 13:474-480.
4. Interagency working group on nano science, national nano technology initiative: Leading to the next industrial revolution, Technology National Science and Technology Council, USA, February (2000).
5. Srikhirin P, Aphornratana S, Chungpaibulpatana S. A review of absorption refrigeration technologies. Renew Sustain Energy Rev 2001;5(4): 343–72.
6. Eastman JA, Choi SUS, Li S, Yu W, Thompson LJ. “Anomalously increased effective thermal conductivities of ethylene glycol-based nanofluids containing copper nanoparticles”. Appl Phys Lett 2001;78(6):718–20.
7. Xie H, Wang J, Xi T, Liu Y, Ai F: Thermal conductivity enhancement of suspensions containing nanosized alumna particles. J Appl Phys 2002, 91:4568-4572.
8. Incropra, F. P. & DeWitt, D. P. (2002). Introduction to Heat Transfer (Fourth Edition), John Wiley & Sons, ISBN: 978-0-471-72226-7, New York.
9. Glezer, A., and R. Mahalingam (2003). System and method for thermal management by synthetic jet ejector channel cooling techniques, U.S. patent 6,588,497.
10. Xue, Q. (2003) “Model for effective thermal conductivity of Nanofluids” Physics Letter A, Vol. 307, No. 5-6, 313-317, ISSN:0217-7323
11. Glezer, A., and R. Mahalingam (2003). System and method for thermal management by synthetic jet ejector channel cooling techniques, U.S. patent 6,588,497.
12. Keblinst P, Eastman J.A. and Chaill D.G. “Nanofluids for thermal transport”. Material Today 8 (2005), 6: pp 36-44.
13. Tzeng, S.-C., C.-W. Lin, and K. D. Huang (2005). Heat transfer enhancement of nanofluids in rotary blade coupling of four-wheel-drive vehicles, Acta Mech., 179: 11–23.
14. Assael, M. J.; Metaxa, I. N.; Kakosimos,K. & Constantinou, D. (2006). Thermal Conductivity of Nanofluids-Experimental and Theoretical, International Journal of Thermophysics, Vol.27, No.4, (July 2006)999-1017, ISSN: 0195-928X
15. Ollivier E, Bellettre J, Tazerout M, Roy GC. Detection of knock occurrence in a gas SI engine from a heat transfer analysis. Energy Convers Manage 2006;47(7–8):879–93.
16. M. J. Kao, C. H. Lo, T. T. Tsung, Y. Y. Wu, C. S. Jwo, and H.M. Lin, “Copper-oxide brake nanofluid manufactured using arc submerged nanoparticle synthesis system,” Journal of Alloys and Compounds, vol. 434-435, pp. 672–674, 2007.

17. H. Zhu, C. Zhang, Y. Tang, J. Wang, B. Ren, and Y. Yin, “Preparation and thermal conductivity of suspensions of graphite nanoparticles,” Carbon, vol. 45, no. 1, pp. 226–228, 2007.
18. M. J. Kao, H. Chang, Y. Y. Wu, T. T. Tsung, and H. M. Lin, “Producing Aluminum-oxide brake nanofluids derived using plasma charging system,” Journal of the Chinese Society of Mechanical Engineers, vol. 28, p. 123, 2007.
19. C.T. Nguyen, G. Roy, C. Gauthier, N. Galanis, Heat transfer enhancement using Al2O3 water nanofluid for an electronic liquid cooling system, Applied Thermal Engineering 27 (2007) 1501-1506..
20. Beck M. Thermal conductivity of metal oxide nanofluids. PhD thesis. Georgia Institute of Technology; 2008.
21. Lee J-H, Hwang KS, Jang SP, Lee BH, Kim JH, Choi SUS, et al. “Effective viscosities and thermal conductivities of aqueous nanofluids containing low volume concentrations of Al2O3 nanoparticles”. Int J Heat Mass Transfer 2008;51(11–12):2651–6
22. A. K. Singh and V. S. Raykar, “Microwave synthesis of silver nanofluids with polyvinylpyrrolidone (PVP) and their transport properties,” Colloid and Polymer Science, vol. 286, no. 14-15, pp. 1667–1673, 2008.
23. Patel, H. E.; Sundararajan, T. & Das, S. K. (2008). A cell model approach for thermal conductivity of nanofluids A micro-convection model for thermal conductivity of nanofluids. J. Nanopart Res., Vol. 10, No. 1, 87–97, ISSN: 1388-0764.
24. Patel, H. E.; Sundararajan, T. & Das, S. K. (2008). A cell model approach for thermal conductivity of nanofluids A micro-convection model for thermal conductivity of nanofluids. J. Nanopart Res., Vol. 10, No. 1, 87–97, ISSN: 1388-0764.
25. Y. Li, J. Zhou, S. Tung, E. Schneider, and S. Xi, “A review on development of nanofluid preparation and characterization,” Powder Technology, vol. 196, no. 2, pp. 89–101, 2009.
26. K.V. Sharma, L. SyamSundar, P.K. Sarma, Estimation of heat transfer coefficient and friction factor in the transition flow with low volume concentration of Al2O3 nanofluid flowing in a circular tube and with twisted tape insert, International Communications in Heat and Mass Transfer 36 (2009) 503-507.
27. Vasu V, Rama Krishna K, Kumar ACS. Heat transfer with nanofluids for electronic cooling. Int J Mater Prod Technol 2009;34(1/2):158–71.
28. Y. Li, J. Zhou, S. Tung, E. Schneider, and S. Xi, “A review on development of nanofluid preparation and characterization,” Powder Technology, vol. 196, no. 2, pp. 89–101, 2009.
29. H.A. Mintsa, G. Roy, C.T. Nguyen, D. Doucet, New temperature dependent thermal conductivity data for water-based nanofluids, International Journal of Thermal Sciences 48 (2) (2009) 363-371.
30. S. Senthilraja, M. Karthikeyan and R. Gangadevi, “Nanofluid applications in future automobiles: comprehensive review of existing data”, Nano-Micro Lett. 2, 306-310 (2010).

31. K. Y. Leong, R. Saidur, S. N. Kazi, A. H. Mamun, Performance investigation of an automotive car radiator operated with nanofluid-based coolants (nanofluid as a coolant in a radiator), Applied Thermal Engineering 30 (2010) 2685–2692.
32. W. G. Peng, Y. C. Liu, Y. W. Hu, Y. R. He, Simulation of heat exchange enhancement using in engine cooling system, Harbin institute of technology 43(1) (2011) 109-113.
33. R Saidur, K Y Leong & H A Mohammad., (2011), A Review on Applications and challenges of Nanofluids, Renewable and Sustainable Energy Reviews, 15(5), pp1646–1668
34. Liu M-S, Lin MC-C, Tsai CY, Wang C-C. "Enhancement of thermal conductivity with Cu for nanofluids using chemical reduction method". Int J Heat Mass Transfer 2006;49(17–18):3028–33, International Journal of Thermal Sciences, Volume 66, April 2013, Pages 82-90.
35. Diego A. Arias, Timothy A. Shedd,"Steady and non-steady flow in a simple carburetor, Inst Mech Eng (Lond) Proc ,Vol. 188, Issue 53, 1974, pp. 537-548.
36. Fluent. FLUENT 5 User Guide, 1999.
37. Gambit. GAMBIT 5 User Guide, 1999.
38. Sayma Abdulnaser, "Computational Fluid Dynamics", Abdulnaser Sayma and Ventus Publishers, 2009
39. D. L. Harrington, "Analysis and digital simulation of venture metering", PhD thesis, University of Michigan, 1968.\
40. Bhramara P., Rao V. D., Sharma K. V., Reddy T. K. K. CFD analysis of two phase flow in a horizontal pipe – prediction of pressure drop", International Journal of Mechanical, industrial and Aerospace Engineering 3:2 2009.
41. Benbella A. Shannak, "Frictional pressure drop of gas liquid two-phase flow in pipes", Nuclear Engineering and Design 238 (2008) pp. 3277–3283.
42. "Data Compilation Tables of Properties of Pure Compounds",
43. Design Institute for Physical Property Data, American Institute of Chemical Engineers, New York, 1984.
44. Hussain A. Mohmmad (2007), "Heat Transfer by natural convection from uniformly Heated vertical circular pipe with different entry restriction configuration", Energy conservation and management, Vol. 48, pp. 2244-2253.
45. Hyo Min Jeong (2009), "Natural convection heat transfer estimation from longitudinally finned vertical pipe using CFD", Journal of mechanical science and Technology, Vol. 23, pp. 1517-1527.
46. Prayagi S (2011), "Parametric Studies on Buoyancy Induced Flow through Circular Pipes in Solar water heating system", International Journal of Engineering Science and Technology (IJEST).
47. Wright J L (2006), "Flow Visualization of Natural Convection in a Tall Air Filled Vertical Cavity", International Journal of Heat and Mass Transfer, Vol. 49, pp. 889-904,

48. Veres J P 1994 Centrifugal and axial pump design and off-design performance prediction (USA: NASA)
49. Sun J and Tsukamoto H 2001 Proc. of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy 215 191-201
50. Cheah K W 2007 Numerical flow simulation in a centrifugal pump at design and off-design conditions International Journal of Rotating Machinery
51. Fan H Y, Xi G and Wang S J 2000 Proc. of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy 214 187-190
52. Shahpar S, Giacche D and Lapworth L 2003 Multi-objective design and optimisation of bypass outlet-guide Vanes ASME Paper GT-2003-38700
53. Sugimura K, Obayashi S and Jeong S 2010 Engineering Optimization 42 271-293
54. Demeulenaere A, Ligout A and Hirsch C 2004 Application of multipoint optimization to the design of turbo machinery blades ASME
55. Chen B and Yuan X 2008 Advanced aerodynamic optimization system for turbo machinery Journal of turbo machinery 130(2)
56. Neumann B 1991 The interaction between geometry and performance of a centrifugal pump. (UK, Mechanical Engineering Publications)
57. Takayama Y and Hiroyoshi W 2009 Multi-objective design optimization of a mixed-flow pump ASME
58. Xie R 2010 Numerical Study and Structural Improvement on Mixed-Flow Pump Impeller: Suppression of vortexes in mixed-flow pump impeller by controlling blade profile Power and Energy Engineering Conference (Yokohama, Japan, 7-10 December 2010) pp 1-4
59. Patrick McGinty, 2013, “Lighted helmet with pipe assembly”, United States Patent No.: US 8,550,650 B1, Date of patent: Oct. 8, 2013
60. N. Hariharan et al., 2014, “CFD Thermal Analysis on Laptop Cooling System using Loop Heat Pipe Technology”, IJRET, e ISSN: 2319-1163 p ISSN: 2321-7308